


FORM IV
(Refer regulation 7(2))
Bureau of Energy Efficiency
REGISTER CONTAINING NAMES OF OFFICES AND FIRMS OF ACCREDITED
ENERGY AUDITORS

| Serial Number (AEA-0205) | | As on 26/6/2015 | |
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| A. | | | |
| 1 | Name of energy auditor | Mukesh Patidar |  |
| 2 | Father's name | Radheshyam Patidar | |
| 3 | Date of certification as Energy Auditor | 18 February 2008 | |
| 4 | Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems" | November 2007 | |
| 5 | Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" | EA- 3156 | |
| 6 | Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems" | 4554 (Certificate issued by BEE) 3033 (Certificate issued by NPC) | |
| 7 | Date of issue of accreditation certificate | (to be filled by BEE) | |
| B. Information in respect of trade name or firms' name | | | |
| 8 | Trade name / firms name under which energy audit is proposed to be conducted | ABB India Limited | |
| 9 | Date of accreditation as accredited energy auditor | (to be filled by BEE) | |
| 10 | Type of firm/ private/ Government / NGO etc. | Private | |
| 11 | Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email | Mukesh Patidar Asst.VP - Marketing & Business Development – | |

| | | | |
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| | address (All details compulsory) | Energy Efficiency ABB India Limited Business Development- Energy Efficiency Country Service Organization Corporate Office 21st Floor, World Trade Center, Dr. Rajkumar Road, Malleshwaram West, 560055, Bangalore, Karnataka, INDIA. Phone (O): +91 80-2294 9260 Mobile: +91 99013 03103 | |
| 12 | Professional postal address with Pin Code of the accredited energy auditor | Mukesh Patidar ABB India Limited Business Development- Energy Efficiency Country Service Organization Corporate Office 21st Floor, World Trade Center, Dr. Rajkumar Road, Malleshwaram West, 560055, Bangalore, Karnataka, INDIA. | |
| 13 | E-mail address | mukesh.patidar@in.abb.com / mukeshhind@yahoo.com | |
| 14 | Telephone numbers. with STD Code (R) (O) Mobile no: | Phone (O): +91 80-2294 9260 Mobile: +91 99013 03103 | |
| 15 | Year of establishment of the trade name / firms' name for undertaking the energy audit | 24/12/1949 | |
| 16 | Year of commencement of energy audit of the firm | Yr.2000 | |
| 17 | Whether any certificate to support the excellence in the system has been obtained (ISO etc.) | Yes, DIN EN ISO9001:2008, ISO14001:2004 OHSAS 18001:2007 | |
| 18 | No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses) | For latest information Please refer: www.abb.co.in | |
| | Contact details: ABB India Office | | |
| | City | Street address | |
| | Phone | Local name | |
| | Ahmedabad | A/6 Corporate Road Safal Profitaire | ABB Ahmedabad office |

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|-------------------------------|--|-------------------------------------|--|
| Bangalore | 49 Race Course Road | +91 80 2294 9250 / 6677 | Regional South |
| Bangalore | 49 Race Course Road | +91 80 2294 9779 | Regional Office South 1 - Bangalore |
| Bangalore * | 21st Floor, World Trade Center, Dr. Rajkumar Road, Malleshwaram West | +91 80 22949129, +91 80 22949150-54 | Corporate Office |
| Bhopal | Plot No 34 Sector – A | +91 755 6463601 - 08 | Regional Office Central 1 - Bhopal |
| Bhubaneswar | Plot No. A-5/1 Bhoi Nagar; City Centre | +91 674 6548 701-716 | Branch Office East - Bhubaneswar |
| Chandigarh | SCO No 13-14-15 | +91 172 5214 400 | Regional Office North 2 - Chandigarh |
| Chennai | 129-140 Greams Road | +91 44 28291550/28291551 | Zonal Office |
| Coimbatore | 70 Race Course Road | +91 422 2305 934 | Branch Office South - Coimbatore |
| Coimbatore | 70 Race Course Road | +91 422 2305 934 | Ventyx |
| Dehradun | C-2/201 Vaibhav Palace | +91 135 2762731 / 2760654 | Branch Office North - Dehradun |
| Faridabad | 14 Mathura Road | +91 129 227 5591-92 | Regional Office North |
| Hyderabad | HUDA Road; Splendid Towers D.No 1-8-437 438 365 & 445 | +91 40 2790 6736, +91 40 2790 6729 | Branch Office South - Hyderabad |
| Jaipur | C-116 Alaknanda | +91 141 2744024 to 26 | Branch Office North - Jaipur |
| Jamshedpur | Contractors area | +91 657 6619 201 / 202 | Branch Office East - Jamshedpur |
| Kochi | Seaport Airport Road | +91 0484 2421481, +91 0484 2421491 | |
| Kolkata | Bengal Intelligent Park Ltd | +91 33 6621 3311 | Regional Office East - Kolkata |
| Lucknow | 29/9 Rana Pratap Marg | +91 522 2209 4369, +91 522 2209 466 | Branch Office North - Lucknow |
| Mumbai | ABB House | +91 22 6615 9828 / 9800 | Regional office west - Mumbai |
| Mumbai | Shah Industrial Estate; Janaki Centre | +91 22 6671 7272 / 73 / 74 | Mumbai - Service centre |
| Mysore | Mysore Ooty Road | +91 80 2125 36100 | Raman Board Limited |
| Nagpur | #5 Gawande Layout | +91 712 6461145 / 46 / 48 / 49 | Branch Office West - Nagpur |
| Nashik | Street No 17 | +91 253 2201200, +91 253 2201337 | Manufacturing Facilities - MV Switchgear |
| Pune | Neel Square Plot No 8 | +91 20 6624 3838 | Branch Office West - Pune |
| Raipur | GE Road | +91 77 1421 3200 | Regional Office Central 2 - Raipur |
| Visakhapatnam | Plot No 1 Balaji Nagar Siripuram | +91 891 2795837, +91 891 2538188 | Branch Office South - Vishakapatnam |

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| Details of Associated Energy Experts | | |
| 19 | Number of resource persons available | 11 no. |
| 20 | I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm | <p>Dr. B S Babji Manager (Advanced Services) Process Automation Division</p> <p>Qualification: B.E.- Chemical Engg M. Tech- Chemical Engg Ph.D.- Chemical Engg</p> <p>Experience: More than 25 years of industrial and academic experience in process modeling, simulation, advanced process control and optimization. Carried</p> |

out performance analysis studies in more than 15 plants.

Sectors: Petroleum Refineries, Petrochemicals, Fertilizers, Pulp and Paper, Sugar, Captive Power plants etc

Mr. Naveen Bhutani

Sr. Scientist

Qualification:

B.E.- Chemical engineering IIT, BHU, Varanasi, India

M. Tech- Specialization in Process Engineering Design IIT, Delhi, India

Ph.D.- Specialization in Process Systems Engineering N U Singapore, Singapore

Experience: 8+ years of experience in process design, energy monitoring, energy auditing, energy management and delivery of advanced energy efficiency solutions for process industries like power plants, oil and gas, desalination, pulp and paper, and steel mills.

Carried out 4 remote energy efficiency services and energy audit assignments for energy management in various process industries

Sectors: Power plant, Pulp & Paper and Buildings.

Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA16670)

Mr. Jinendra K Gugaliya

Sr. Scientist

Qualification:

M. Tech- Thermal Engineering

Experience:

12 years of experience in research and development related to energy efficiency, energy audit, development of tools for energy audits etc.

Sectors: Power plants (both captive and thermal), Refinery and Engineering, Manufacturing units

Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA-16671)

Mr. Sanjaya Kumar Swain

Engineer- Advanced Services

Process Automation Division/Responsible for delivery of advanced services

Qualification:

B.E.- Chemical Engg

Experience: More than 9 years of industrial experience in production, process analysis, control loops performance diagnosis and tuning.

Sectors: Pulp and Paper, Cement and Captive Power plants.

Mr. Anirban Saha
Manager

Qualification:

B.E.- Power Plant Engineering

Experience: 8 years' experience in project management for power Plant EPC, Energy audits, energy management & Maintenance.

Sectors: Power plant, Motor Manufacturing unit, Office Building & premises.

Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA16761)

Mr. Rajeev Pol

Asst. VP

Project Management – HV Motors & Generators

Qualification:

B.E.- Electrical

PG Diploma in Operations Management

Experience: 20 Years of total experience. 2 years in process industry, 2 years in software service industry, 16 years in rotating machines manufacturing industry. Energy management, Head of electrical maintenance for 4 years, Head of HV motor test field for 8 years and since 4 years.

Sectors: Engineering, Chemical, Building

Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA7783)

Mr. Ujjal Das

AVP

Head Engineering, Power Systems, Substations

Qualification:

B.E.- Electrical Engineering

Experience: 22 years of experience in working in

Power System, substation, design, tendering, project management for various State and Central Power Utility customer, Government and Private sector Steel Plant, Industrial sector, Aluminium Plant, Various Independent Power Plants.

Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA16737)

Mr. Sumesh P J

Engineer

Engineering & Design

Qualification:

ME- Power system

Experience: 9 year experience in the areas of generation, Substations, Transmission lines design. Main experience in preparation of layouts, conductor sizing, Engineering calculations etc.

Carried out energy audit of engineering, Building.

Sectors: Engineering and commercial Buildings

Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA6590)

Mr. Himanshu Jin

Sr. Design Engineer

eBOP, Designing

Qualification:

B.E.- Electrical Engineering,

M.S in Power Engineering,

PGDEM - Energy Efficiency, Certified Energy Auditor

Experience: Over 7 years' experience in electrical designing of power Plant EPC, Energy audits, energy management & Maintenance.

Sectors: Power plant, Engineering, Building.

Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA15405)

Mr. Nilanjan Bose

Asst. Vice President

Qualification:

B.E.- Electrical Engineering

PGDBM – Management Information Systems

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| | | <p>Certified Project Management Professional</p> <p>Experience: 17 Years' experience out of which 11 in a Power generation / distribution utility looking after energy metering / billing/ monitoring & controlling T&D losses.</p> <p>Sectors: Power distribution, Energy metering & AT&C Loss monitoring in distribution utilities.</p> <p>Certified Energy Manager by Bureau of Energy Efficiency (BEE) India (EA17013)</p> <p>Ms. Thejaswini AR Sr. Engineer Design & Engineering</p> <p>Qualification: B.E.- Electrical & Electronics Engineering</p> <p>Experience: Overall 10+ Years' Experience</p> <ul style="list-style-type: none"> - 5+ Years' experience in Design & Engineering domain – Power distribution for Industrial & Infrastructure Projects - 2 Years' experience in Design & Engineering of Protection Panels for Switchyards. - 3 Years' experience in Receiving Station Maintenance, Responsible for improving Plant availability factor. <p>Been part of Energy Audits conducted at ABB branches in Peenya, Nelamangala & ABB- Mysore.</p> <p>Sectors: Buildings, Paper & Pulp</p> <p>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (EA16685)</p> |
| 20 | <p>II. No. of part-time energy auditors in position during the current year / previous years associated with the energy auditor / energy auditor's firms.</p> | <p>Dr. B.G. Desai-Director Ph. D (Electrical Engineering) from Indian Institute of Technology, Mumbai. Faculty member at IIT, Mumbai, for five years. Six years with Jyoti Ltd. as R&D Manager in charge of Electrical Machines, Power Electronics and Renewable Sources of Energy. Since 1975, working in the field of energy conservation as founder head of Devki R&D Engineers and Devki Energy Consultancy Pvt. Ltd.</p> |
| 21 | <p>Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception</p> | <p>Cement, Iron & Steel, Thermal Power plant, Food & beverage, Engineering, Pulp & paper, Chemical, Building, Petrochemicals, Fertilizer, Aluminium, Sugar, Textile</p> |

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| 22 | Subject wise expertise | <p>Assessment, Analysis of following systems</p> <ol style="list-style-type: none"> 1. Electrical system- Motors, transformers, Capacitor banks, distribution system, harmonics analysis, Reactive power analysis, Large Motor efficiency estimation 2. Pumps 3. Fans/Blowers 4. Compressed Air 5. HVAC, Refrigeration –Air conditioning 6. Cooling Towers 7. Electrolysis, Rectiformers 8. Electrical heating-Resistance, Induction & Arc furnace 9. Fuel fired equipments- Boilers, Hot oil generators, Furnaces, Gas, Coal 10. Steam distribution analysis and traps 11. End use analysis of heating & cooling Waste Heat recovery- from utility equipments & processes 12. Buildings 13. Analysis of cogeneration potential 14. Process control and Loop performance analysis for various sectors. 15. Technical & Financial feasibility analysis |
| (a) | Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil. Bureau of Energy Efficiency will be calling for detailed information in case agency has listed its energy audit expertise in the process systems | <p>Process control of:</p> <p>Thermal Power plant, Cement plant Pulp & paper Iron & Steel</p> |
| (b) | Energy audit thermal utility system (list sectors) | <ol style="list-style-type: none"> 1. Power plant, 2. Engineering 3. Cement 4. Iron & steel |
| (c) | Energy audit electrical utility system (list sectors) | <ol style="list-style-type: none"> 1. Cement 2. Iron & Steel 3. Thermal Power plant 4. Food & beverage 5. Engineering 6. Pulp & paper 7. Building, 8. Chemical 9. Transmission & Distribution |

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| 23 | Instruments available | <ol style="list-style-type: none"> 1. 3-phase Power analyser 2. Clamp type ammeter 3. Lux meter 4. Anemometer 5. Digital Temperature indicator 6. Data logger for high speed data acquisition for process analysis | |
| | (a) Electrical (list the name of the instruments) | <ol style="list-style-type: none"> 1. 3 phase power analyser 2. Clamp-on ammeter 3. Lux meter | |
| | (b) Thermal (list the name of the instruments) | <ol style="list-style-type: none"> 4. Anemometer 5. Digital Temperature indicator 6. ABB data logger for high speed data acquisition for process analysis | |
| 24 | Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit | | |
| (i) | Conducted training on energy efficiency improvement in utility system for Siemens team at Vedanta Aluminium, Jharsuguda | Participant's appx. 20 nos. Duration: 2 days Areas covered: Basics of energy, Energy auditing of Electrical system, Motor, Pump, Fan, Compressors | Training Location: Mumbai During yr. 2011 |

| D | Remarks(if any) |
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(Note: Responsibility of the authenticity of the above information rests with the concerned energy auditor/energy auditing agency.)